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(21)Application number : 05-046119 (71)Applicant : ASAHI BREWERIES LTD  
(22)Date of filing : 12.02.1993 (72)Inventor : WATANABE HAJIME  
TAGASHIRA MOTOYUKI

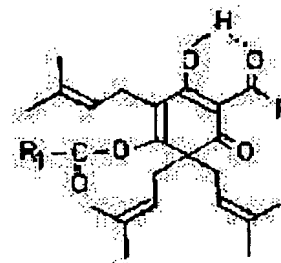
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## (54) BETA-ACID @ (3754/24) LUPULONES) ACYL DERIVATIVE HAVING ANTIOXIDATION ACTION

### (57)Abstract:

PURPOSE: To obtain the subject derivative being stable, capable of exhibiting strong antioxidation activity in vivo and useful for medicines, beverages and foods, etc., by acylating  $\beta$  acids (lupulones) obtained from hop.

CONSTITUTION:  $\beta$ -Acids (lupulones) obtained from hop are made to react with an acylating agent such as an acid chloride in a solvent such as pyridine or dichloromethane at ordinary temperature to 0° C for 1-24hr to provide the objective compound of the formula [R is CH(CH<sub>3</sub>)<sub>2</sub> or CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>, etc.; R<sub>1</sub> is H, 1-20C alkyl, alkenyl, etc.].



### LEGAL STATUS

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